

### Abstract of the Disclosure

Structure and methodology involving mountable and head-wearable frame structure which is positionally stabilized, during use, relative a human subject's head, and which carries a selection of positionally anchored data sensors, and stimuli deliverers, 5 that are relevant to the diagnosis and treatment of vestibular disorders. Special configurations are provided for two types of stimulators, one for sound application and air-pressure modification, and the other for the introduction of fluids to the ear. Stabilization enables tight and accurate correlation of data which is quickly analyzable by a connected, properly algorithmed computer, which can also be used for feedback control 10 in a designed "expert" system. The invention enables, among other things, practical and significant differentiation between physiological and pathological nystagmus.